## ABSTRACT OF THE DISCLOSURE

A temperature detecting device is provided which can reduce manufacturing cost. Provided that the pull-up resistance has a resistance value $R_P$ and the heat-sensitive resistance element has a resistance value $R_T$, the voltage (V1) of the heat-sensitive resistance element in the case of the first voltage extraction mode is given by "VCC × $R_T$ / ($R_P$ + $R_T$)" while the voltage (V2) of the heat-sensitive resistance element in the case of the second voltage extraction mode is given by "VCC × $R_T$ / (2$R_P$ + $R_T$)". When the two heat-sensitive resistance elements are normally operating (no occurrence of disconnection or short circuit failure), the voltages respectively extracted in the first and second extraction modes have a ratio matching a ratio of the foregoing two equations (V1 : V2). Thus, the two heat-sensitive resistance elements can be positively determined for a presence or absence of failure.